

Amendments to the Claims

This listing of claims replaces all prior versions of the claims in the patent application:

1. (Currently amended) A method for providing a user interface for controlling devices that are currently connected to a network, the method comprising ~~the steps of, for one or more of said devices:~~

(a) ~~obtaining device information from devices currently connected to the network;~~

(b) ~~generating a user interface based at least on the obtained information, the user interface including one or more references associated with the device information in one or more of said devices currently connected to the network;~~

(c) ~~displaying said a user interface on one or more devices connected to the network capable of displaying a user interface, the user interface including at least one reference associated with each of said devices connected to the network for user selection control of said one or more devices that are currently connected to the network; and~~

(d) ~~in response to selection of a reference associated with a device from the user interface, using the selected reference for to access the selected device and communicating over the network to access the information in for the selected device to display a control user interface and dynamically generating a web-based control page for display on a browser using the accessed device~~

~~information of the selected device~~ for user interaction with the selected device via
the web-based control page.

2. – 3. (Canceled).

4. (Currently amended) The method of claim 1, wherein said accessed information ~~in~~
~~each~~ for the selected device comprises an HTML page contained in that selected device.

5. (Currently amended) The method of claim 1, wherein ~~the step of~~ displaying the
user interface ~~further comprises the steps of:~~ displaying the user interface on a browser on said
one or more devices capable of displaying a user interface.

6. (Currently amended) The method of claim 1, further comprising the steps of:
connecting at least one client device to the network capable of displaying a user
interface; and
displaying a user interface on the client device for controlling server devices that
are currently connected to the network.

7. (Currently amended) The method of claim 1, wherein:
the accessed ~~device~~ information resides in each device, and further includes a user
control interface description for user interaction with the device, ~~;~~ and
~~step (d) further includes the steps of~~ the method further comprising, upon

detecting user selection of a device from the user interface, using the associated reference to access the selected device and obtain the user control interface description in the selected device, and then displaying the obtained user control interface description as the control page for user command and control of the selected device.

8. (Currently amended) The method of claim 1, ~~wherein the step (b) further includes the steps of~~ further comprising generating ~~each the~~ user interface such that the reference in that user interface provides access to at least the information ~~in~~ for each associated device.

9. (Currently amended) The method of claim 1, ~~wherein the step (b) further includes the steps of~~ further comprising generating ~~each the~~ user interface such that the user interface further includes device data corresponding to each device based on the information obtained from each device.

10. (Currently amended) The method of claim 1, wherein the accessed device information in each device includes device identification information and device description information.

11. (Currently amended) The method of claim 1, wherein the accessed device information in each device includes a user control interface description for user interaction with the device.

12. (Currently amended) The method of claim 11, ~~wherein:~~
~~step (b) further includes the steps of~~ further comprising generating each user interface such that each reference in that user interface is linked to at least the user control interface description in each corresponding device; and
~~step (d) further includes the steps of,~~ detecting user selection of a device from one of said user interfaces, and using a reference in the user interface ~~of the selected device~~ to access the control interface description in the device and then display the control interface description as a control ~~user interface~~ page for user command and control of the device.

13. (Currently amended) The method of claim 11, ~~wherein the step (b) further includes the steps of~~ further comprising generating each user interface wherein that user interface further includes device data corresponding to each device based on the information obtained from each device, the device data providing reference to the user control interface description in each device.

14. (Currently amended) A webpage-based network system for performing a service, comprising:

a physical layer, wherein the physical layer provides a communication medium that can be used by devices to communicate with each other;

one or more devices connected to the physical layer, each device storing information including device description information;

an agent in each of the one or more devices[[,]] adapted for:

(a) obtaining device description information from the one or more
devices ~~currently connected to the network~~;

(b) dynamically generating a webpage-based user interface ~~based at~~
~~least on~~ utilizing the obtained device description information, the webpage-based
user interface including one or more references associated with the device
information in one or more of said devices ~~currently connected to the network~~;

(c) displaying said user interface on one or more client devices
connected to the network, each client device including a browser capable of
displaying ~~[[a]]~~ the webpage-based user interface, for user control of said one or
more devices ~~that are currently connected to the network~~; and

(d) in response to selection of a reference associated with a device
from the webpage-based user interface via a browser, using the reference to access
the selected device and access the information in the selected device to display a
dynamically-generated control user-interface using the accessed device
information of the selected device for user interaction with the selected device.

15. – 16. (Canceled).

17. (Currently amended) The system of claim 14, wherein said accessed information
in each device comprises an HTML page contained in that device.

18. (Currently amended) The system of claim 14, wherein each agent is further adapted for displaying ~~a user interface by: displaying~~ the user interface on a browser on said one or more devices capable of displaying a user interface.

19. (Currently amended) The system of claim 14, further comprising at least one client device connected to the network capable of displaying a user interface, wherein the ~~;~~ ~~and~~ one or more agents are further adapted for displaying a user interface on the client device, for controlling devices that are currently connected to the network.

20. (Currently amended) The system of claim 14, wherein at least one of the devices currently connected to the network is capable of displaying a user interface, and the one or more agents are further adapted for: displaying a user interface on said at least one device, for controlling the devices that are currently connected to the network.

21. (Currently amended) The system of claim 14, wherein each agent is further adapted for generating ~~each~~ a user interface such that the reference in ~~that~~ the generated user interface provides access to at least the information in each corresponding device.

22. (Currently amended) The system of claim 14, wherein each agent is further adapted for generating ~~each~~ a user interface such that the user interface further includes device data corresponding to each device based on the portion of information obtained from each device.

23. (Currently amended) The system of claim 14, wherein the accessed device information in each device includes device identification information.

24. (Currently amended) The system of claim 14, wherein the accessed device information in each device includes a user control interface description for user interaction with the device.

25. (Currently amended) The system of claim 24, wherein each agent is further adapted for generating each user interface such that each reference in that user interface is linked to at least the user control interface description in each corresponding device, and upon detecting user selection of a device from one of said user interfaces, the agent uses a reference in the user interface of the selected device to access the control interface description in the selected device and then display the control interface description as a control ~~user~~ interface for user command and control of the selected device.

26. (Currently amended) The system of claim 24, wherein each agent is further adapted for generating ~~each a~~ user interface ~~wherein that user interface further~~ includes device data corresponding to each device based on the device description information obtained from each device, the device data providing reference to the user control interface description in each device.

27. (Currently amended) A network system for performing a service, comprising:
a physical layer, wherein the physical layer provides a communication medium
that can be used by devices to communicate with each other;

multiple devices connected to the physical layer, one or more of said multiple
devices storing information including device information[[,]]; ~~and a plurality of said multiple
devices each including~~ an agent adapted for:

(a) obtaining device information ~~from~~ for devices currently connected
to the network;

(b) dynamically generating a webpage-based user interface based at
least on the obtained device information, the user interface including one or more
references associated with the ~~device~~ information in one or more of said devices
currently connected to the network;

(c) displaying said webpage-based user interface on one or more client
devices connected to the network capable of displaying [[a]] the webpage-based
user interface, for user control of said devices that are currently connected to the
network; and

(d) in response to selection of a reference associated with a device
from the webpage-based user interface, using the selected reference for accessing
~~to access the selected device and access the information in~~ for the device to
display a webpage-based control ~~user~~ interface on a web browser using the
accessed ~~device~~ information of the selected device for user interaction with the
selected device.

28. – 29. (Canceled).

30. (Currently amended) The system of claim 27, wherein said accessed information in each device comprises an HTML page contained in that device.

31. (Currently amended) The system of claim 27, wherein each agent is further adapted for displaying a user interface ~~by: displaying the user interface~~ on a browser on said one or more devices capable of displaying a user interface.

32. (Currently amended) The system of claim 27, further comprising at least one client device connected to the network capable of displaying a user interface, wherein the ~~;~~ and one or more agents are further adapted for displaying a user interface on the client device, for controlling devices that are currently connected to the network.

33. (Currently amended) The system of claim 27, wherein at least one of said devices currently connected to the network is capable of displaying a user interface, and the one or more agents are further adapted for ~~for~~ displaying a user interface on said at least one device for controlling devices that are currently connected to the network.

34. (Currently amended) The system of claim 27, wherein each agent is further adapted for generating ~~each~~ a user interface such that the reference in ~~that~~ the generated user

interface provides access to at least the information in each corresponding device.

35. (Currently amended) The system of claim 27, wherein each agent ~~the step (b)~~ is further adapted for generating each user interface such that the user interface further includes device data corresponding to each device based on the information obtained from each device.

36. (Currently amended) The system of claim 27, wherein the accessed device information in each device includes device identification information.

37. (Currently amended) The system of claim 27, wherein the accessed device information in each device includes a user control interface description for user interaction with the device.

38. (Currently amended) The system of claim 37, wherein each agent is further adapted for generating each user interface such that each reference in that user interface is linked to at least the user control interface description in each corresponding device, and upon detecting user selection of a device from one of said user interfaces, the agent uses a reference in the user interface of the selected device to access the control interface description in the selected device and then display the control interface description as a control ~~user~~ interface for user command and control of the selected device.

39. (Currently amended) The system of claim 37, wherein each agent is further adapted for generating each user interface wherein ~~that~~ the generated user interface further includes device data corresponding to each device based on the information obtained from each device, the device data providing reference to the user control interface description in each device.

40. (Currently amended) The method of claim 1, wherein ~~the step of displaying the control interface~~ page comprises the steps of:

accessing said selected device in response to the selection of the reference associated with the selected device, and accessing the ~~device~~ information contained in the selected device;

generating the control ~~user interface~~ page including the device data corresponding to said selected device using the accessed ~~device~~ information contained in the selected device;

and

displaying the control ~~user interface~~ page on the one or more devices ~~connected to the network~~ capable of displaying a user interface.

41. (Currently amended) A method for displaying a webpage-based user interface for controlling application devices that are currently connected to a network, comprising the steps of:

(a) obtaining a first set of device information from the application devices ~~currently connected to the network~~;

(b) dynamically generating a webpage-based user interface based at least on

the obtained first set of device information, the webpage-based user interface including one or more references associated with ~~the~~ a second set of device information in one or more of said application ~~devices currently connected to the network;~~

(c) displaying said webpage-based user interface on a web browser for user control of said application ~~devices that are currently connected to the network;~~ and

(d) in response to selection of a reference from the webpage-based user interface associated with an application device, displaying a control ~~interface~~ page on the web browser by accessing the selected application device over the network and accessing the second set of device information of said selected application device.

42. (Currently amended) The method of claim 41, wherein ~~the step of~~ displaying the control ~~interface~~ page comprises the steps of:

accessing said selected application device in response to the selection of the reference associated with the selected application device, and accessing the second set of device information contained in the selected device;

generating the control ~~interface~~ page ~~including the device data corresponding to said selected device~~ using the accessed second set of device information contained in the selected device; and

displaying the control ~~interface~~ page on the web browser in a control device.

43. (Currently amended) The system of claim 14, wherein each agent is further configured for displaying the control interface by:

accessing said selected device in response to the selection of the reference associated with the selected device, and accessing the ~~device~~-information contained in the selected device;

generating the control interface including the device data corresponding to said selected device using the accessed ~~device~~-information contained in the selected device; and

displaying the control interface on one or more devices connected to the network capable of displaying a user interface.

44. (Currently amended) The system of claim 27, wherein each agent is further configured for displaying the control interface by:

accessing said selected device in response to the selection of the reference associated with the selected device, and accessing the ~~device~~-information contained in the selected device

generating the control interface including the device data corresponding to said selected device using the accessed ~~device~~-information contained in the selected device; and

displaying the control interface on one or more devices connected to the network capable of displaying a user interface.